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INFORMATION REPORT

REPORT

CD NO.

COUNTRY	East Germany	DATE DISTR.	25 August 1954
SUBJECT	Development of an Ultra-Centrifuge at Carl Zeiss, Jena	NO. OF PAGES	1
PLACE ACQUIRED		NO. OF ENCLS. (LISTED BELOW)	25X1
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THIS IS UNEVALUATED INFORMATION

1. In summer 1953, department KoV 1 (Konstruktionsversuche) of VEB Carl Zeiss, Jena, started the development of an ultra-centrifuge. Engineer Kaestner (fnu) was in charge of construction. In March 1954, the first laboratory model of the ultra-centrifuge was completed.

2. The instrument is operated with compressed air. The final model is expected to perform 60,000 rpm. Its main part is a gyroscope (Kreiselkoerper) of octagonal shape made from tempered aluminum with diameters 12 to 14 and 11 to 12 millimeters long. The gyroscope hangs on a shaft. Above this is the drive mechanism. This mechanism consists of two circular series of openings arranged around the shaft, into which compressed air is blown through jets. A third set of openings between the two drive sets serves as a brake mechanism by means of compressed air blowing in the opposite direction.

3. The laboratory model which was tried out from March to early June 1954 has not functioned well. KoV 1 is trying to improve the designs of the instrument before production is started.

4. The firm intends to put out several models of the finished ultra-centrifuge. They are alleged to serve scientific purposes. One model was ordered by VEB Jenapharm, Jena.

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